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PRODUCT EVALUATION

RV-29

Effective May 1, 2009
Revised February 1, 2012

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **November 2012**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

Cobra® Rigid Vent 3™, Cobra® Rigid Vent 2™, Cobra® Snow Country Advanced™, Cobra® Snow Country™, Cobra® Ridge Runner™ Filtered and Unfiltered Gun-Nailable Roll Shingle Over Ridge Vent

manufactured by

GAF

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will be acceptable for use for use in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

Trade Name	Description	Filtered	Nails
Cobra Rigid Vent 3	4 FT Shingle Over Ridge Vent	NO	3" corrosion resistant ring shank roofing nails included with vent
Cobra Rigid Vent 3 9" width	4 FT Shingle Over Ridge Vent	NO	3" corrosion resistant ring shank roofing nails included with vent
Cobra Rigid Vent 2	4 FT Shingle Over Ridge Vent	NO	No nails included, requires 3" corrosion resistant ring shank roofing nails
Cobra Snow Country Advanced	4 FT Shingle Over Ridge Vent	YES	3" corrosion resistant ring shank roofing nails included with vent
Cobra Snow Country Advanced 9" width	4 FT Shingle Over Ridge Vent	YES	3" corrosion resistant ring shank roofing nails included with vent
Cobra Snow Country	4 FT Shingle Over Ridge Vent	YES	No nails included, requires 3" corrosion resistant ring shank roofing nails
Cobra Ridge Runner	Gun-Nailable Shingle Over Ridge Vent 20' Roll (non filtered)	NO	Two coils of 1¾" corrosion resistant smooth shank roofing nails included with each 20' roll
Cobra Ridge Runner	Gun-Nailable Shingle Over Ridge Vent 20' Roll (filtered)	YES	Two coils of 1¾" corrosion resistant smooth shank roofing nails included with each 20' roll

PRODUCT DESCRIPTION

Cobra Rigid Vent 3 (unfiltered), Cobra Rigid Vent 2 (unfiltered), Cobra Snow Country Advanced (filtered) and Cobra Snow Country (filtered) Shingle Over Ridge Vents are under-the shingle ridge ventilators for the purpose of providing natural ventilation of enclosed attic spaces as specified in the International Residential Code (IRC) and the International Building Code (IBC). The ridge vents for 12"

width ridge caps are nominally 4 feet in length, and are $13\frac{1}{16}$ inches wide by $\frac{7}{8}$ inches thick. The 9" Width Cobra Rigid Vent 3 and Cobra Snow Country Advanced ridge vents for 10" width ridge caps are nominally 4 feet in length, and are $11\frac{5}{16}$ inches wide by $\frac{7}{8}$ inches thick. The 4 ft long vents have segmented exterior baffles to allow full air flow. The openings in the vent provide 18 square inches of net free area (NFA) per linear foot of vent. The ridge vent comes with an integral tear feature called EASYTear® which allows tool-free termination of the ridge vent to the desired final length required. A total of thirty (30) 3" long x $\frac{1}{8}$ " dia. shank x 0.360" dia. head corrosion resistant sink shank roofing nails are required. The nails are used to secure the vent to the roof decking and to secure ridge cap shingles over the vent. The filtered vents use a non-woven fibrous material that is heat bonded to the underside of the vent. The manufacturer's installation instructions will be supplied in the box which shall be available at all times on the jobsite during installation.

Cobra Ridge Runner Gun-Nailable Ridge Vent Rolls, Part No. (filtered or unfiltered) are under-the shingle ridge ventilators for the purpose of providing natural ventilation of enclosed attic spaces as specified in the International Residential Code (IRC) and the International Building Code (IBC). The ridge vents are $13\frac{1}{2}$ inches wide by $\frac{5}{8}$ inches thick, and come in 20 foot roll lengths. The 20 ft long vent is low profile to allow it to be gun-nailable, yet still retains an exterior baffle to allow full air flow. Structural ribs extending from the vent underside to the baffle at 1.5 inch intervals provide support along the entire length of the vent. Seams are provided at 1 foot intervals for customizing to the desired length, which due to the unique double wall feature requires no end plugs. Each ridge vent roll comes with two coils of $1\frac{3}{4}$ " long x $\frac{1}{8}$ " dia. shank x $\frac{3}{8}$ " dia. head corrosion resistant smooth shank roofing nails. The nails are used to secure the vent to the roof decking and to secure ridge cap shingles over the vent. The filtered version of the vent uses a non-woven fibrous material that is heat bonded to the underside of the vent. The manufacturer's installation instructions will be supplied in the box of the vent which shall be available at all times on the jobsite during installation.

LIMITATIONS

Cobra Rigid Vent 3, Cobra Rigid Vent 2, Cobra Snow Country Advanced, and Cobra Snow Country Shingle Over Ridge Vents:

Design Wind Pressure: -360 psf

Roof Deck: The roof deck shall consist of minimum $\frac{7}{16}$ inch thick OSB wood structural panels, or 1" thick Southern Yellow Pine board lumber.

For All Applications: Cobra Rigid Vent 3, Cobra Rigid Vent 2, Cobra Snow Country Advanced, and Cobra Snow Country Shingle Over Ridge Vents shall be installed on roofs with a minimum slope of 3:12, up to a maximum slope of 16:12. The ridge vent provides 18 sq. in. of NFA per linear foot installed and must be installed with eave, cornice or soffit vents that supply equal or greater amounts of NFA per linear foot. The maximum air slot opening is $3\frac{1}{4}$ " using ridgepole construction, and the minimum air slot opening is $1\frac{3}{4}$ ". In the event the 3" nails do not provide at least $\frac{1}{4}$ " penetration beyond the underneath side of the roof sheathing, alternate nails must be provided by the installer for installation.

Cobra Ridge Runner Gun-Nailable Shingle Over Ridge Vent Rolls:

Design Wind Pressure: -360 psf

Roof Deck: The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{7}{16}$ inch thick OSB.

For All Applications: Cobra Ridge Runner Gun-Nailable Ridge Vent Rolls shall be installed on roofs with a minimum slope of 3:12, up to a maximum slope of 16:12. The ridge vent provides 12.5 sq. in. of NFA per linear foot installed and must be installed with eave, cornice or soffit events that supply equal or greater amounts of NFA per linear foot. The maximum air slot opening is $3\frac{1}{4}$ " using ridgeline construction, and the minimum air slot opening is $1\frac{3}{4}$ ". In the event the $1\frac{3}{4}$ " long nails supplied with the vent do not provide at least $\frac{1}{4}$ " penetration beyond the underneath side of the roof sheathing, alternate nails must be provided by the installer for installation.

INSTALLATION INSTRUCTIONS

Cobra Rigid Vent 3, Cobra Rigid Vent 2, Cobra Snow Country Advanced, and Cobra Snow Country Shingle Over Ridge Vents:

Fasteners: The ridge vent shall be attached to the deck using the 3" long corrosion resistant ring shank roofing nails which have a $\frac{1}{8}$ inch diameter shank with a 0.360 inch diameter head. The ridge vent shall be nailed down using ten (10) of the 3" long nails, one in each molded nail hole. The remaining twenty (20) 3" long nails are for the ridge shingles. In the event the 3" long nails do not provide at least $\frac{1}{4}$ " penetration beyond the underneath side of the roof sheathing, alternate nails must be provided by the installer for installation.

For All Applications: The ridge vent shall be installed centered over the air slot to completely cover the air slot and extend a minimum of 6" beyond the end of the air slot opening. The air slots should stop a minimum of 6" before the interior side of exterior end walls and a minimum of 12" before other ridge intersections; i.e. chimneys, hip joints, roofing places, etc. The manufacturer supplied installation instructions are to be consulted on the guidelines set forth for air slot cutting. If the 4 foot section of vent is not long enough to cover the entire air slot, additional 4 foot sections of vent should be added by overlapping the ridge vent using the built in overlapping feature. When the end of the air slot is reached during installation, the tear feature of the vent is used to terminate the length of the ridge vent to the final end position desired. The ridge cap shingles must be installed per the shingle manufacturer's instructions with a minimum of two nails per shingle and a shingle to shingle spacing of 6" or less.

Cobra Ridge Runner Gun-Nailable Ridge Vent Rolls:

Fasteners: The ridge vent shall be attached to the deck with minimum $1\frac{3}{4}$ " inch long galvanized roofing nails, with a $\frac{1}{8}$ inch diameter smooth shank and $\frac{3}{8}$ inch diameter head. In the event the $1\frac{3}{4}$ " long nails supplied with the vent do not provide at least $\frac{1}{4}$ " penetration beyond the underneath side of the roof sheathing, alternate nails must be provided by the installer for installation. One nail shall be driven through the vent at each target location as indicated on the top of the vent.

For All Applications: The ridge vents shall be installed centered over the air slot to completely cover the air slot and extend a minimum of 6" beyond the end of the air slot opening. The air slots should stop a minimum of 6" before the interior side of exterior end walls and a minimum of 12" before other ridge intersections; i.e. chimneys, hip joints, roofing places, etc. The manufacturer supplied installation instructions are to be consulted on the guidelines set forth for air slot cutting. If the 20 foot section of roll vent is not long enough to cover the entire air slot, additional 20ft sections of vent should be added by overlapping the ridge vent using the built in overlapping feature. When the end of the air slot is reached during installation, the tear feature of the vent is used to terminate the length of the ridge vent to the nearest foot to cover the air slot completely and to extend past the air slot at least 6". The ridge cap shingles must be installed per the shingle manufacturer's instructions with a minimum of two nails per shingle and a shingle to shingle spacing of 5" or less.

When the end of the air slot is reached during installation, the ridge vent shall be cut to length to match the final end position desired. The manufacturer supplied installation instructions are to be consulted on the guidelines set forth for cutting the ridge vent for custom fit. The ridge cap shingles must be installed per the shingle manufacturer's instructions with a minimum of two nails per shingle and a shingle to shingle spacing of 5" or less.

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) with Texas Revisions and the International Building Code (IBC) with Texas Revisions. The ridge vent must be covered with asphalt roof shingles that comply with the requirements of the IRC and IBC with Texas Revisions. Installation of the ridge vent shall comply with the instructions set forth in the manufacturer's instructions.